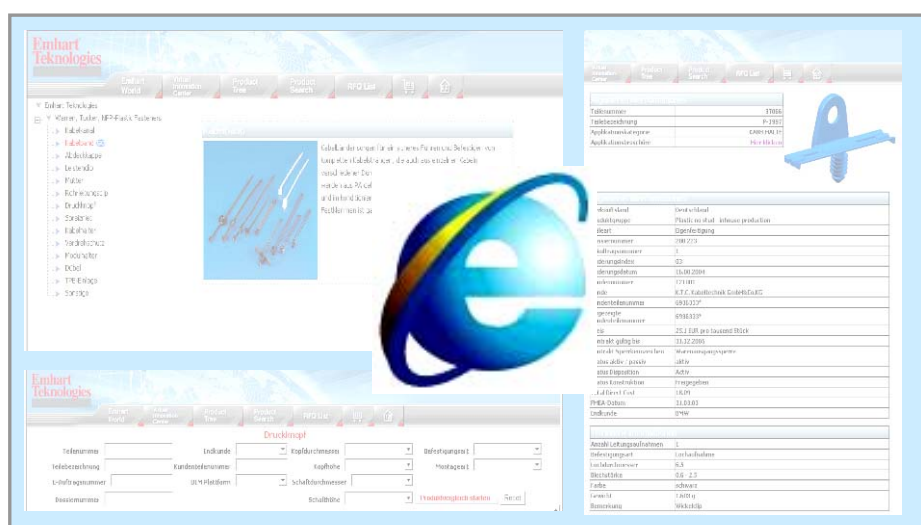


Electronic Plastic Fastener Catalog on www.emhart.com



User Manual

Version 1.0 english
June 2006

TABLE OF CONTENT

1	GOAL OF THE ELECTRONIC CATALOG FOR PLASTIC FASTENER	3
2	THE VIRTUAL INNOVATION CENTER ON WWW.EMHART.COM	4
2.1	Virtual Innovation Center (VIC).....	4
2.2	Registration & Login	4
2.3	Navigation within the Virtual Innovation Center.....	6
3	THE PLASTIC FASTENER CATALOG.....	7
3.1	Startpage Plastic Fastener Catalog.....	7
3.2	Sub-Categories of the Plastic Fastener catalog	8
3.3	Part Search & Results Table	9
3.3.1	General Functionality.....	9
3.3.2	Part Search.....	10
3.3.3	Search with drop-down field	10
3.3.4	Search with text-entry box	10
3.3.5	Search with wildcards.....	10
3.3.6	Combination of Search Criteria	10
3.3.7	Reset	11
3.3.8	The Results Table	11
3.4	The Part Spec Page	12
3.4.1	Structure of the Spec Page	12
3.4.2	The „Comment“ Button	12
3.4.3	The “Customize” Button.....	13
3.4.4	The Printer-friendly Page.....	13
3.5	Side-by-Side Product Comparison	13
3.6	Search for Retainer Diameters in Pipe Clip category	14
4	PRODUCT SEARCH – (ALL EMHART PRODUCT LINES)	16
5	CATALOG ADMINISTRATOR	17

1 Goal of the Electronic Catalog for Plastic Fastener

The goal of the Electronic Plastic Fastener Catalog is to provide a multi-language internet system that enables users and customers to search, find and display Plastic Fasteners as quickly and as comfortable as possible.

We try to keep the Product Data in this system always up to date for you.

On your first login please read and pay attention to the “Important User Information”. The system should only be used under these terms and you will need to acknowledge having read these information.

The Plastic Fastener catalog is embedded into the “Virtual Innovation Center” on the Emhart website.

In case of questions, problems or ideas with/about this system please contact the address shown in the Chapter “Catalog Administrator”.

2 The Virtual Innovation Center on www.emhart.com

2.1 Virtual Innovation Center (VIC)

On our website www.emhart.com you can find information regarding Emhart Teknologies and our products and services. The electronic Plastic Fastener catalog is part of Emhart.com's Virtual Innovation Center (VIC).

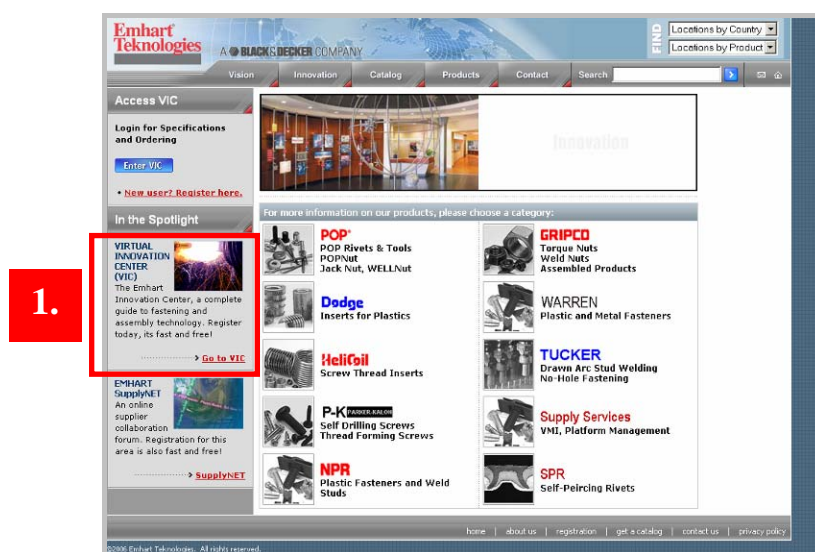


Figure 1: www.emhart.com & the Virtual Innovation Center

Within the Virtual Innovation Center you get detailed information on our fastening and assembly technology. Product Descriptions, catalogs, manuals and service information – all that and more can be found within the Virtual Innovation Center. You can enter the VIC via the link on the Emhart.com startpage (see marker #1 in Figure 1) or directly under <http://www.emhart-vic.com>.

2.2 Registration & Login

In order to use the Virtual Innovation Center you need to go through a one-time, cost-free registration. On every visit to the VIC you will be asked to log in on the following screen:

A screenshot of the 'Free Registration for Virtual Innovation Center' form. The form has a header with a mouse cursor icon and a welcome message. Below the message, there is a list of benefits: 'Interactive Catalogs', 'Product Videos', 'Interactive Fastener Wizards', '2D/3D Solid Model Cad Drawings', 'Value Analysis', 'Search Tools', 'Free Conversion Calculator', and 'Setup Dimensions'. A red box highlights the 'Register Now' button, which is labeled with a red '2'. To the right of the 'Register Now' button is a 'Reset' button. At the bottom right of the form, there is a '>> Login' button, which is labeled with a red '1'. The form also includes fields for 'Login (Email)', 'Product of Interest', and 'Intended Use', and a text area for 'Describe your application and annual pieces required.'.

Figure 2: Login/Registration for the Virtual Innovation Center

If you are already registered to the Virtual Innovation Center, please enter you Login (equals your eMail address) and the other fields and click on the “Login button (see marker # 1 in Figure 2 above).

If you are visiting the Virtual Innovation Center for the first time, you need to register one time. Click the “Register Now” button (see marker # 2 in Figure 2 above). The Registration Screen opens:

Free Registration for Virtual Innovation Center

Welcome! And thank you for your interest in our Virtual Innovation Center!
Filling out this form will allow you access to:

- Interactive Catalogs
- Product Videos
- Interactive Fastener Wizards
- 2D/3D Solid Model Cad Drawings
- Value Analysis
- Search Tools
- Free Conversion Calculator
- Setup Dimensions

* indicates a required field New User? Complete the form below and click the 'Register Now' Button

Email Address

*E-mail:

Your e-mail address will be your log-in name.

User Information

*First Name: *Last Name:

*Company: Job Title:

*Address 1: Address 2:

*City: *State/Province:

*Country: USA Zip:

*Telephone:

Request Details

*Product of Interest: Industry:

*Action Request: Intended Use:

Describe your application and annual pieces required:

<< Cancel and Return Reset >> Register Now

Figure 3: Registration for the Virtual Innovation Center

Please enter the requested registration data and click the button “Register Now” (see marker # 3 in Figure 3 above).

You are now lead to the Virtual Innovation Center Welcome Screen:



Figure 4: The Virtual Innovation Center Welcome Screen


2.3 Navigation within the Virtual Innovation Center

The elements of the horizontal navigation bar are the same and have the same functionality throughout all pages of the Emhart Virtual Innovation Center.



Figure 5: Top Navigation of Emhart Virtual Innovation Center

Emhart World:	Links to the start page of www.emhart.com
Virtual Innovation Center:	Links to the start page of the Emhart Virtual Innovation Center
Product Tree:	Links back to the main Product Tree from any point in the catalog (e.g. if you want to switch into another product line or sub-category).
Product Search:	Search for Part Numbers, Keywords through all Emhart product lines
RfQ List:	No functionality within the Plastic Fastener Catalog. Used to enter a Request for Quotation in other product lines.

In the left hand navigation bar of the Virtual Innovation Center website you find the so-called „Product Tree“. The Product Tree is used to navigate through the various Emhart product lines and their sub-categories (and the respective catalogs and contents). The  symbol in the Product Tree shows that a sub-category of this menu point is available and can be opened by clicking on the symbol. The currently activated Product Tree branch is always marked in red letters.

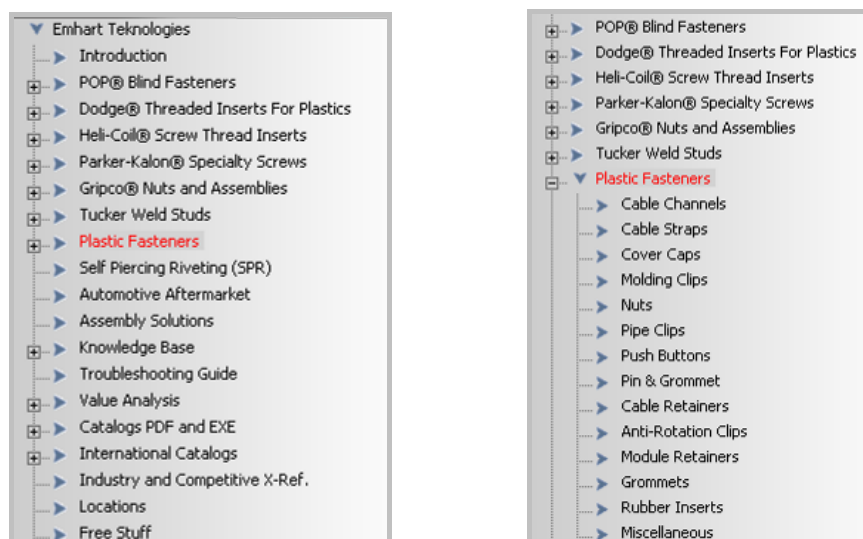


Figure 6: The Emhart "Product Tree"

Note: The Product Tree is not visible at some points of the Plastic Fastener Catalog. At any point in the catalog you can click the  button in the top navigation. This will bring back the Product Tree and take you to your last visited Product Tree category.

3 The Plastic Fastener Catalog

3.1 Startpage Plastic Fastener Catalog

Click on the “Plastic Fastener” branch of the Product Tree. You are taken to the startpage of the Plastic Fastener catalog with the following elements:

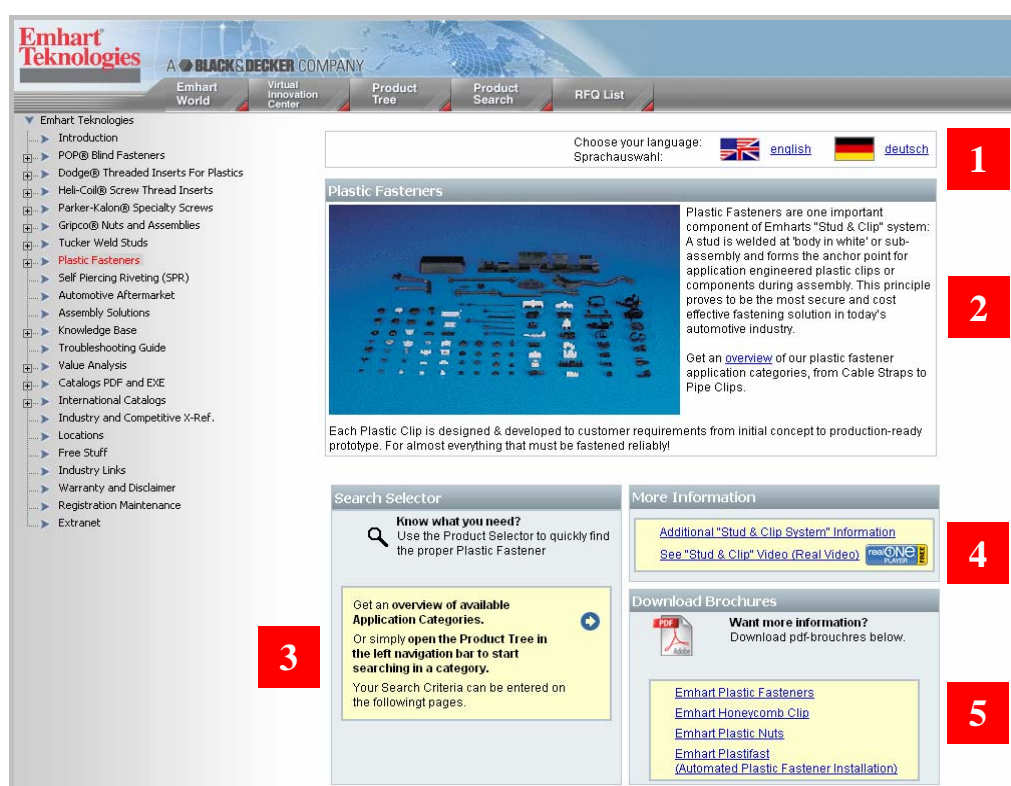



Figure 7: The Plastic Fastener catalog startpage

Language Selection:	On top of the page you can select languages for the catalog. In the first step english and german are available. It is planned to implement other languages. See marker # 1).
Introduction:	Introductory text about Plastic Fasteners. Includes a link to category overview page (See marker # 2).
Search Selector:	Explanation about how to navigate & search within the catalog (See marker # 3).
More Information:	Contains further links to content about the Emhart No-Hole System on Emhart.com (See marker # 4).
Brochure Download:	Download our Plastic Fastener brochures in pdf format (see marker # 5).

3.2 Sub-Categories of the Plastic Fastener catalog

To open the Plastic Fastener Product Tree in the left hand navigation bar, simply click on the  symbol or double-click the header “Plastic Fasteners”. The tree opens up the sub-categories with the various sub-categories of the Plastic Fasteners product line:

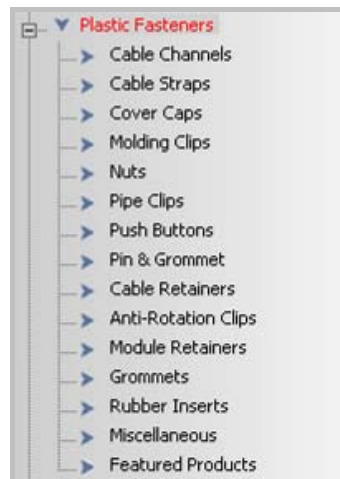


Figure 8: Sub-Categories of Plastic Fasteners

Clicking on one of the categories opens the respective category startpage on the right hand side of the window. The chosen Product Tree branch is marked red now. The category startpage contains further information about the chosen category.




Figure 9: Startpage Sub-Category Plastic Nuts

3.3 Part Search & Results Table

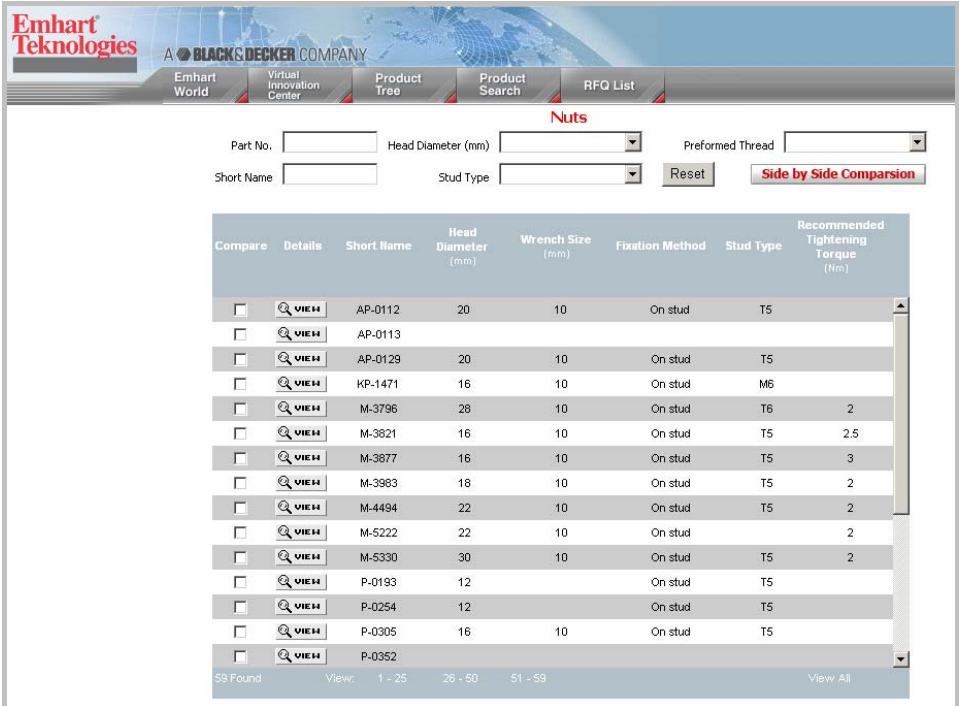
3.3.1 General Functionality

To search & find parts or part information start the Part Search in one of the below described ways:

Click on the -button behind the respective category name in the open Product Tree.

Double-click on the respective category name in the open Product Tree, e.g. 

Search criteria and results table are placed on the same page for better overview. In the upper section of the screen you find the search criteria that can be searched for in the respective category. The lower section of the screen contains the results table with a list of the items that match the current search criteria:



Search Criteria

Part No. Head Diameter (mm) Preformed Thread
Short Name Stud Type

Results Table

Compare	Details	Short Name	Head Diameter (mm)	Wrench Size (mm)	Fixation Method	Stud Type	Recommended Tightening Torque (Nm)
<input type="checkbox"/>		AP-0112	20	10	On stud	T5	
<input type="checkbox"/>		AP-0113					
<input type="checkbox"/>		AP-0129	20	10	On stud	T5	
<input type="checkbox"/>		KP-1471	16	10	On stud	M6	
<input type="checkbox"/>		M-3796	28	10	On stud	T6	2
<input type="checkbox"/>		M-3821	16	10	On stud	T5	2.5
<input type="checkbox"/>		M-3877	16	10	On stud	T5	3
<input type="checkbox"/>		M-3983	18	10	On stud	T5	2
<input type="checkbox"/>		M-4494	22	10	On stud	T5	2
<input type="checkbox"/>		M-5222	22	10	On stud	T5	2
<input type="checkbox"/>		M-5330	30	10	On stud	T5	2
<input type="checkbox"/>		P-0193	12		On stud	T5	
<input type="checkbox"/>		P-0254	12		On stud	T5	
<input type="checkbox"/>		P-0305	16	10	On stud	T5	
<input type="checkbox"/>		P-0352					

59 Found View: 1 - 25 26 - 50 51 - 59 View All

Figure 10: Part Search & Results Table

Note:

As long as no search criteria have been entered (so to speak: the search has not been narrowed down yet) the results table in the lower section of the screen shows all the parts that belong to the chosen application category.

3.3.2 Part Search

The upper half of this screen contains the section where the search criteria are entered. The name of the chosen sub-category is always displayed in red above the fields for entering the search criteria. (Note: This is because the Product Tree is not visible at that point of the catalog – Clicking the „Product Tree“ button in the top navigation will bring you back to the Product Tree anytime.)

The set of „general“ search criteria in the left block is always the same in all sub-categories: Search for the 5-digit „Part Number“ (e.g. 36423) and for the Part Short Name (e.g. P-1234). The set of “technical” search criteria in the middle and on the right is always aligned to a specific category.

There are two kinds of search criteria fields: Text-entry boxes for free entry of a search criteria and drop-down fields where you chose a search criteria from a list of available values.

Figure 11: Search Criteria Section

3.3.3 Search with drop-down field

When you search by choosing a value from a drop-down-field (e.g. *Fixation Method: On Stud*), immediately the Results Table in the lower part of the screen refreshes automatically and only displays those parts that still meet the entered search criteria (in the example only parts with *Fixation Method = On Stud* will be displayed).

3.3.4 Search with text-entry box

When entering your search criteria into a text-entry box (e.g. *Part Number: 12345*) please finish your entry by hitting the ENTER key. Immediately the Results Table in the lower part of the screen refreshes automatically and only displays those parts that still meet the entered search criteria (in the example only parts with *Part Number = 12345*).


3.3.5 Search with wildcards

The search within text-entry boxes also works with wildcards. If you only know fractions of the searched value (number or word), enter these fractions and hit the ENTER key. For example the search for Part Number: P-18 will deliver a search result of all parts that have P-18... in the beginning of their Part Number. You can also use the “ * “ as a wildcard for an unknown value (example: P-18* will deliver all parts that start with P-18...).

3.3.6 Combination of Search Criteria

You can combine multiple search criteria to narrow down the search results (e.g. Search for End Customer: BMW and Fixation Method: On Stud and Stud Type: T5). By entering only a few search criteria the Results Table drills down to the searched part in the ideal case.

3.3.7 Reset

By clicking the  button all entered search criteria are set back to the initial state. The Results Table refreshes and shows all parts from the current category again.

3.3.8 The Results Table

The Results Table in the lower part of the screen always displays those parts that still meet the currently entered search criteria. Every row of the Results Table shows one part number of the found parts. The most important attributes for each found part are already shown in each row for a quick overview.

The number of found parts is displayed in the left low corner of the Results Table. If the table contains more than 25 parts the list is broken down into pages of 25 parts each. In this case you can flip through the parts page by page or “View All” parts in one long list.

The Results Table can be sorted by every available attribute in the list. Simply click into the column heading section of the respective attribute to sort the list by that attribute. A second click will turn around the search order (switch from ascending to descending).

















Compare	Details	Short Name	Head Diameter (mm)	Wrench Size (mm)	Fixation Method	Stud Type	Recommended Tightening Torque (Nm)
<input type="checkbox"/>	 VIEW	P-2322	30		On stud	M6	
<input type="checkbox"/>	 VIEW	P-2284	40	10	On stud	T5	
<input type="checkbox"/>	 VIEW	P-2283	30	10	On stud	T5	2.0
<input type="checkbox"/>	 VIEW	P-2259	16	10	On stud	T5	2.5
<input type="checkbox"/>	 VIEW	P-2239	22	10	On stud	T5	1.2
<input type="checkbox"/>	 VIEW	P-2185	20	10	On stud	T5	
<input type="checkbox"/>	 VIEW	P-2183	20	10	On stud	T5	
<input type="checkbox"/>	 VIEW	P-2180	18	10	On stud	T5	2.25
<input type="checkbox"/>	 VIEW	P-2132	30	10	On stud	T5	1.5
<input type="checkbox"/>	 VIEW	P-2128	24	10	On stud	T5	
<input type="checkbox"/>	 VIEW	P-2097		11	On stud	T6	
<input type="checkbox"/>	 VIEW	P-2016		6	On stud	T5	1.5
<input type="checkbox"/>	 VIEW	P-2015		6	On stud	T5	1.5
<input type="checkbox"/>	 VIEW	P-2002	20	10	On stud	T5	2
<input type="checkbox"/>	 VIEW	P-1911	18	10	On stud	T5	2
59 Found		View: 1 - 25	26 - 50	51 - 59	View All		

Figure 12: The Results Table (sorted by Short Name descending)

3.4 The Part Spec Page

3.4.1 Structure of the Spec Page

The Spec Page with all product details of a part is viewed by clicking the  button in the “Details” column of the Results Table. The following page opens:

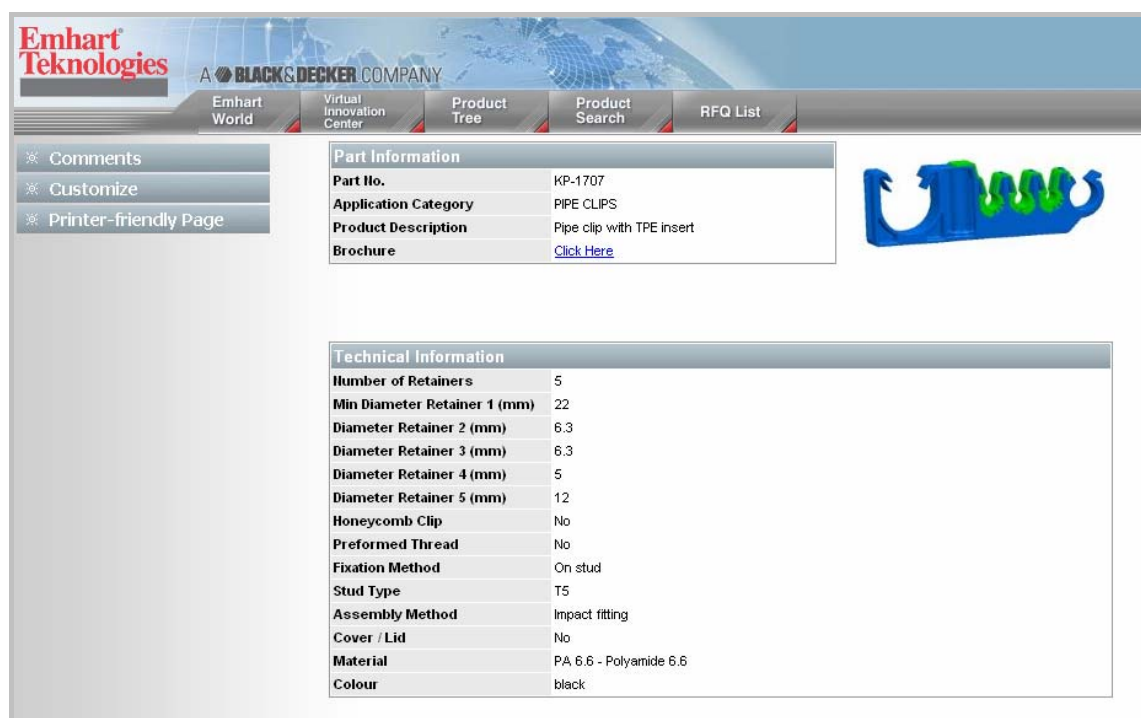



Figure 13: The Part Spec Page

The Page is divided in the following sections:

Part Information:	Part Number, Short Name, Category etc.
Product Image:	3D solid in .jpg format – if not available a default category image is displayed
Technical Information:	Geometries, Forces, Material etc.

The Spec Page contains the following additional buttons on the left-hand side:

3.4.2 The „Comment“ Button

Every Spec Page has the functionality to enter a comment about the respective part. This comment will be forwarded to a Product Management employee. Simply click the  button, type in your comment and click “Submit Comments”.

3.4.3 The “Customize” Button

The currently displayed part “almost” meets your requirements and only some attributes/values need to be changed? Click the **Customize** button and let us know the changes you require for this part on the following screen. A company representative will reply shortly.

3.4.4 The Printer-friendly Page

Clicking on the **Printer-friendly Page** button on a Spec Page opens a new window with a printer-optimised page for any standard size printer. All product data from the Spec Page is included and available for a datasheet print.

3.5 Side-by-Side Product Comparison

Parts from the Results Table can easily be compared with each other by using the Side-by-Side Product Comparison functionality. Choose the parts that you want to compare by activating the respective checkboxes in the “Compare” column of the Results Table. Then, click on the **Side by Side Comparison** button.

Compare	Details	Short Name	Head Diameter (mm)	Wrench Size (mm)	Fixation Method	Stud Type	Recommended Tightening Torque (Nm)
<input type="checkbox"/>	VIEW	M-3796	28	10	On stud	T6	2
<input checked="" type="checkbox"/>	VIEW	P-1084	19	10	On stud	T6	
<input checked="" type="checkbox"/>	VIEW	P-1832	24	10	On stud	T6	2
<input checked="" type="checkbox"/>	VIEW	P-1868	16.5	10	On stud	T6	0.70
<input type="checkbox"/>	VIEW	P-2097		11	On stud	T6	

5 Found View: 1 - 5

Figure 14: Choose parts for the Product Comparison

A new screen opens that displays a comparison table of the chosen parts. All attributes are listed and can be compared side-by-side quickly.

Side-by-Side Product Comparison:

Below is a comparison of your selected Part Numbers and their corresponding data. Each column shows the data for one part. Click the Part Number link in the column heading to see the details for the part.

	P-1084	P-1832	P-1868
Head Diameter (mm)	19	24	16.5
Wrench Size (mm)		10	
Fixation Method		On stud	
Stud Type		T6	
Assembly Method		Screw fittings	
Thread Forming Torque (max.) (Nm)	N/A	2	0.70
Material	PA 6.6 - Polyamide 6.6	PA 6 GF - Polyamide 6 fibre-glass reinforced	PA 6.6 GF - Polyamide 6.6 fibre-glass reinforced

[Return to Product Selector](#)

Figure 15: The Product Comparison Table

There is no limitation for the number of parts that can be put into the Product Comparison. Clicking „Return to Product Selector“ takes you back to your original Results Table.

3.6 Search for Retainer Diameters in Pipe Clip category

Within the category Pipe Clips you can perform a search for a specific set of retainer diameters. This search is started by clicking the link Search for a specific series of retainers at the bottom of the Search Criteria section. This search is performed on a separate screen for technical reasons.

Figure 16: Search for Retainer Diameters in Pipe Clips

You can enter your search criteria in the upper section of the new screen. The lower section of the screen displays the search results.

Zeige Details	Artikelnummer	Ø 1	Ø 2	Ø 3	Ø 4	Ø 5	Ø 6	Ø 7	Ø 8	Ø 9
	KP-1163	3.20	3.20	4.75	4.75					
	KP-1424	4.75	4.75	8.00	15.00					
	KP-2119	4.75	4.75	10.00	10.00	5.00				
	KP-2208	4.75	4.75							
	M-3639	4.75	4.75	5.00	10.00	8.00	12.00	8.00		
	P-1211	4.75	4.75	8.00	4.75					
	P-1221	5.00	4.75	4.75	5.00					

23 Found View: 1 - 23

Figure 17: Search Results Pipe Clip Retainer Diameter Search

The following search criteria can be entered::

Number of Retainers:	Type in how many retainers the searched Pipe Clip should have.
Search only clips with x retainers vs. Search all clips	Type in whether the system should only search within the Pipe Clips that feature exactly the same above number of retainers or if it should search in all available Pipe Clips.
Tolerance:	Type in whether the system should perform the search

	for exact matches to your entered diameter values or whether it should search with a 10% tolerance.
Include Retainers with flexible Diameter Range:	Type in whether the system should perform the search including the Pipe Clips that have flexible diameters (range) or not. When you choose “yes” the value entry box format changes. You can now type in a range “from” – “to” for each retainer diameter.
Entry box for „Retainer“ Diameter	Type in the retainer diameter value that you are looking for. Unit is Milimeter (mm). Decimal separator is “.” (point).
Search:	Click “Search” to start the search.

4 Product Search – (All Emhart product lines)

The Product Search area offers additional search functionalities on the level of all Emhart product lines. Click the navigation button  in the top navigation bar to start a search.



Figure 18: Top Navigation of Emhart Virtual Innovation Center

The below screen opens. You can perform a Part Number search or a Keyword search by entering your search criteria in the respective fields and click the “Search” button. The search is performed over all parts in the Emhart database. Results are listed in the Results Table at the bottom of the screen.

To search, simply enter a full or partial part number or enter a keyword in the search box that describes the product you are looking for and click the "Search" button.

Part Number

Keywords

Search Type: ☒ All words ☐ Any words

Unit Of Measure: ☒ Metric ☐ English

Product Table	Add to Cart	Spec Sheet	Part Number	Product Family	Description
			AP-0110	Push Buttons	Used for detachable fastening of carpets, soft trim, insulation or trim covers in the vehicle interior. Other applications are the attachments of cable and/or wire harness retainers. Manual, semi-automated or fully-automated assembly process.
			KAP-0118	Molding Clips	Secure fastening of trim strips and sealings. Reduces risk of corrosion to a minimum. Pre-assembled trim strips can be applied to the car body in one assembly operation step.
			KP-1094	Molding Clips	Secure fastening of trim strips and sealings. Reduces risk of corrosion to a minimum. Pre-assembled trim strips can be applied to the car body in one assembly operation step.
			KP-1119	Molding Clips	Secure fastening of trim strips and sealings. Reduces risk of corrosion to a minimum. Pre-assembled trim strips can be applied to the car body in one assembly operation step.
			KP-1120	Molding Clips	Secure fastening of trim strips and sealings. Reduces risk of corrosion to a minimum. Pre-assembled trim strips can be applied to the car body in one assembly operation step.

38 Found Page: 1 - 38

Figure 19: The Product Search

5 Catalog Administrator

In case of questions, problems, any kind of feedback, enhancement ideas etc. please contact the catalog administrator under plasticcatalog@bdk.com or phone +49 (0)641-405 425.